

TV6 Calculation for Scotts Valley, CA

TV6 Call sign
KVIE
Fcc Search
40.8 dBu

City
Sacramento
State
CA

COR AMSL (m)
553
HAAT(m)
550

Latitude
381618
Longitude
1213022

+

TV ERP (kW)
100.000
FM Horizontal ERP
0.075

☒ Outside City Of 50k

TV

FM

47471

Plot Scale
150

☒ DLG☐ AJPI

☒ Hide Zeros

☒ Plot All Centroids

☒ Plot Inside Centroid Counts

☐ Plot All Centroid Counts

☒ Plot Contours

☐ Print All Centroids to -3 dBu

☐ Print Centroids

☒ Print TV Contour Table

Comp

COPY F
COPY I

PrintText

Print Form



Channel Six TV Protection Study						
KVIE	06	100.000kW ERP	553.0M COR AMSL	550.0M HAAT	Lat. 381618	Lon. 1213022
Prop	207	0.075kW ERP	607.0M COR AMSL	377.7M HAAT	Lat. 370343	Lon. 1220714
Distance from TV to FM 144.7963km Azi 22.0degr Rev Azi 202.0 degr						
Cutoff radius for channel 207 is 196 km						
The FM horizontal polarization component is 0.075 kW, and the area of just perceptible interference does not intersect a city of 50k, so the effective ERP is (Pw/40+Ph) 0.0769kW						
The TV6 signal strength at the FM transmit site is 40.8 dBu						
This strength is outside the 68 dBu Grade A contour, allowing a 6 dB bonus to be applied to the allowable FM signal to F centroids (centroids in the angles between the FM station and the TV station)						
TV Contour	Undesired/Desired Ratio	Total	Directional Total			
47	20.4	67.3	73.3			
Population in affected area						0